

CLASSIFICATION: 07 14 16.00

PRODUCT DESCRIPTION: PRO-GRADE® 588 ALUMINUM WB ROOF COATING IS DESIGNED TO ADD YEARS OF SERVICE AND REFLECTIVITY TO ASPHALTIC MEMBRANES, AGED GALVANIZED METAL AND NEW ASPHALT EMULSION SURFACES. ITS COMBINATION OF PREMIUM ALUMINUM FLAKES SUSPENDED IN EMULSIFIED ASPHALT PROVIDES OUTSTANDING WEATHERING RESISTANCE AND REFLECTANCE. THIS PRODUCT REDUCES SURFACE TEMPERATURE AND PENETRATION OF THE SUN'S RAYS TO THE ROOF SURFACE, THEREBY RETARDING DETERIORATION OF THAT SURFACE. IT HELPS REDUCE INTERIOR TEMPERATURE AND PROTECTS THE ROOF AND ROOFING MEMBRANE BY REDUCING HEAT ABSORPTION, ASPHALT OXIDATION, AND RAPID THERMAL DIMENSIONAL CHANGES.

Section 1: Summary

CONTENT INVENTORY

Threshold per material	Residuals and impurities considered in 1 of 1 materials
<input checked="" type="radio"/> 100 ppm	<input checked="" type="radio"/> see Section 2:
<input type="radio"/> 1,000 ppm	Material Notes
<input type="radio"/> Per GHS SDS	<input checked="" type="radio"/> see Section 5:
<input type="radio"/> Per OSHA MSDS	General Notes
<input type="radio"/> Other	

Based on the selected Content Inventory Threshold:

Characterized.....	<input checked="" type="radio"/>	<input type="radio"/>
Are the Percent Weight and Role provided for all substances?	Yes	No
Screened.....	<input checked="" type="radio"/>	<input type="radio"/>
Are all substances screened using Priority Hazard Lists with results disclosed?	Yes	No
Identified.....	<input checked="" type="radio"/>	<input type="radio"/>
Are all substances disclosed by Name (Specific or Generic) and Identifier?	Yes	No

CONTENT IN DESCENDING ORDER OF QUANTITY

Summary of product contents and results from screening individual chemical substances against HPD Priority Hazard Lists and the GreenScreen for Safer Chemicals®. The HPD does not assess whether using or handling this product will expose individuals to its chemical substances or any health risk. Refer to Section 2 for further details.

**MATERIAL | SUBSTANCE | RESIDUAL OR IMPURITY
GREENSCREEN SCORE | HAZARD TYPE**

ALUMINUM ROOF COATING [WATER **BM-4** ASPHALT **LT-1** | CAN ALUMINUM **LT-P1** | RES | END | PHY TALC **BM-3** | CAN 2-PROPENOIC ACID, 2-METHYL-, POLYMER WITH BUTYL 2-PROPENOATE, ETHENYLBENZENE AND METHYL 2-METHYL-2-PROPENOATE **LT-UNK** KAOLIN CLAY **LT-UNK** | CAN BENTONITE **LT-UNK** DOLOMITE **UNK** QUARTZ **LT-1** | CAN]

Number of Greenscreen BM-4/BM3 contents..... 2
Contents highest concern GreenScreen Benchmark or List translator Score..... LT-1
Nanomaterial..... No

INVENTORY AND SCREENING NOTES:

VOLATILE ORGANIC COMPOUND (VOC) CONTENT

Material (g/l): 8.0 Regulatory (g/l):
Does the product contain exempt VOCs: No
Are ultra-low VOC tints available: N/A

CERTIFICATIONS AND COMPLIANCE

No certifications have been added to this HPD.

<input checked="" type="radio"/> Self-Published*	VERIFIER:	SCREENING DATE: January 22, 2017	EXPIRY DATE*: January 22, 2020
<input type="radio"/> Third Party Verified	VERIFICATION #:	RELEASE DATE: January 22, 2017	* or within 3 months of significant change in product contents

*See HPDC website for details



Section 2: Content in Descending Order of Quantity

This section lists materials in a product and the substances in each material based on the Inventory Threshold for each material. If residuals or impurities from the manufacturing or extraction processes are considered for a material, these are inventoried and characterized to the extent described in the Material and/or General Notes. Chemical substances are screened against the HPD Priority Hazard Lists for human and environmental health impacts. Screening is based on best available information; "Not Found" does not necessarily mean there is no potential hazard associated with the product or its contents. More information about Priority Hazard Lists and the GreenScreen can be found online: www.hpd-collaborative.org and www.greenscreenchemicals.org.

ALUMINUM ROOF COATING %: 100.0000 - 100.0000 HPD URL:

Inventory Threshold: 100 ppm Residuals Considered: Yes

Material Notes:

WATER

ID: 7732-18-5

%: 60.0000 - 70.0000 GS: BM-4 RC: None NANO: NO ROLE: Solvent

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES:

ASPHALT

ID: 8052-42-4

%: 10.0000 - 20.0000 GS: LT-1 RC: None NANO: NO ROLE: Waterproofing/flexibility

HAZARDS:

AGENCY(IES) WITH WARNINGS:

CANCER IARC Group 2b - Possibly carcinogenic to humans

CANCER US CDC - Occupational Carcinogens Occupational Carcinogen

CANCER MAK Carcinogen Group 2 - Considered to be carcinogenic for man

SUBSTANCE NOTES: IARC considers asphalt to be a carcinogen in road paving operations. This product is not used in this application.

ALUMINUM

ID: 7429-90-5

%: 5.0000 - 15.0000 GS: LT-P1 RC: None NANO: NO ROLE: Reflection

HAZARDS:

AGENCY(IES) WITH WARNINGS:

RESPIRATORY AOEC - Asthmagens Asthmagen (ARs) - sensitizer-induced - inhalable forms only

ENDOCRINE TEDX - Potential Endocrine Disruptors Potential Endocrine Disruptor

PHYSICAL HAZARD
(REACTIVE)

EU - GHS (H-Statements)

H228 - Flammable solid

PHYSICAL HAZARD
(REACTIVE)

EU - GHS (H-Statements)

H250 - Catches fire spontaneously if exposed to air

PHYSICAL HAZARD
(REACTIVE)

EU - GHS (H-Statements)

H261 - In contact with water releases flammable gases

SUBSTANCE NOTES:

TALC

ID: 14807-96-6

#: 5.0000 - 10.0000

GS: BM-3

RC: None

NANO: NO

ROLE: Filler/film strengthener

HAZARDS:

AGENCY(IES) WITH WARNINGS:

CANCER

MAK

Carcinogen Group 3B - Evidence of carcinogenic effects but not sufficient for classification

SUBSTANCE NOTES: Not available in respirable form

2-PROPENOIC ACID, 2-METHYL-, POLYMER WITH BUTYL 2-PROPENOATE, ETHENYLBENZENE AND METHYL 2-METHYL-2-PROPENOATE

ID: 25987-66-0

#: 1.0000 - 5.0000

GS: LT-UNK

RC: None

NANO: NO

ROLE: Flexibility

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES:

KAOLIN CLAY

ID: 1332-58-7

#: 1.0000 - 5.0000

GS: LT-UNK

RC: None

NANO: NO

ROLE: Thixotrope

HAZARDS:

AGENCY(IES) WITH WARNINGS:

CANCER

MAK

Carcinogen Group 3B - Evidence of carcinogenic effects but not sufficient for classification

SUBSTANCE NOTES:

BENTONITE

ID: 1302-78-9

#: 1.0000 - 5.0000

GS: LT-UNK

RC: None

NANO: NO

ROLE: Thixotrope

HAZARDS:**AGENCY(IES) WITH WARNINGS:**

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES:**DOLOMITE**

ID: 16389-88-1

%: Impurity/Residual

GS: UNK

RC: None

NANO: NO

ROLE: Impurity/Residual

HAZARDS:**AGENCY(IES) WITH WARNINGS:**

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES:**QUARTZ**

ID: 14808-60-7

%: Impurity/Residual

GS: LT-1

RC: None

NANO: NO

ROLE: Impurity/Residual

HAZARDS:**AGENCY(IES) WITH WARNINGS:**

CANCER

US CDC - Occupational Carcinogens

Occupational Carcinogen

CANCER

CA EPA - Prop 65

Carcinogen - specific to chemical form or exposure route

CANCER

IARC

Group 1: Agent is carcinogenic to humans - inhaled from occupational sources

CANCER

US NIH - Report on Carcinogens

Known to be Human Carcinogen (respirable size - occupational setting)

CANCER

MAK

Carcinogen Group 1 - Substances that cause cancer in man

SUBSTANCE NOTES: Not available in respirable form.

**Section 3: Certifications and Compliance**

This section lists applicable certification and standards compliance information for VOC emissions and VOC content. Other types of health or environmental performance testing or certifications completed for the product may be provided.

**Section 4: Accessories**

This section lists related products or materials that the manufacturer requires or recommends for installation (such as adhesives or fasteners), maintenance, cleaning, or operations. For information relating to the contents of these related products, refer to their applicable Health Product Declarations, if available.



Section 5: General Notes



MANUFACTURER INFORMATION

MANUFACTURER: Henry Company

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KEY

OSHA MSDS Occupational Safety and Health Administration Material Safety Data Sheet

GHS SDS Globally Harmonized System of Classification and Labeling of Chemicals Safety Data Sheet

Hazard Types

AQU Aquatic toxicity

GLO Global warming

PHY Physical Hazard (reactive)

CAN Cancer

MAM Mammalian/systemic/organ toxicity

REP Reproductive toxicity

DEV Developmental toxicity

MUL Multiple hazards

RES Respiratory sensitization

END Endocrine activity

NEU Neurotoxicity

SKI Skin sensitization/irritation/corrosivity

EYE Eye irritation/corrosivity

OZO Ozone depletion

LAN Land Toxicity

GEN Gene mutation

PBT Persistent Bioaccumulative Toxic

NF Not found on Priority Hazard Lists

GreenScreen (GS)

BM-4 Benchmark 4 (prefer-safer chemical)

LT-P1 List Translator Possible Benchmark 1

BM-3 Benchmark 3 (use but still opportunity for improvement)

LT-1 List Translator Likely Benchmark 1

BM-2 Benchmark 2 (use but search for safer substitutes)

LT-UNK List Translator Benchmark Unknown (insufficient information from List Translator lists to benchmark)

BM-1 Benchmark 1 (avoid - chemical of high concern)

UNK Unknown (no data on List Translator Lists)

BM-U Benchmark Unspecified (insufficient data to benchmark)

Recycled Types

PreC Preconsumer (Post-Industrial)

PostC Postconsumer

Both Both Preconsumer and Postconsumer

Unk Inclusion of recycled content is unknown

None Does not include recycled content

Other

Nano Composed of nanoscale particles or nanotechnology

Declaration Level

Self-declared Manufacturer's self-declaration (First Party)

Independent Lab Manufacturer's self-declaration using results from an independent lab

Second Party Verification by trade association or other interested party

Third Party Verification by independent certifier

Applicable facilities Manufacturing sites to which testing applies

The Health Product Declaration (HPD) Open Standard provides for the disclosure of product contents and potential associated human and environmental health hazards. Hazard associations are based on the HPD Priority Hazard Lists, the GreenScreen List Translator, and when available, full GreenScreen assessments. The HPD Open Standard does not provide an assessment of health impacts throughout the product life cycle. It does not provide an assessment of exposure or risk associated with product handling or use. It also does not address potential health impacts of: (i) substances used or created during the manufacturing process unless they remain in the final product, or (ii) substances created after the product is delivered for end use (e.g., if the product burns, degrades, or otherwise changes chemical composition).

The HPD Open Standard was created and is maintained and evolved by the Health Product Declaration Collaborative (the HPD Collaborative), a customer-led organization composed of stakeholders throughout the building industry. The HPD Collaborative is committed to the continuous improvement of building products through transparency, openness, and innovation throughout the product supply chain.

A disclosure completed in compliance with the HPD Open Standard is referred to as a "Health Product Declaration," or "HPD." The product manufacturer and any applicable independent verifier are solely responsible for the accuracy of statements and claims made in this HPD and for compliance with the HPD Open Standard noted.